Log No. 204 T Rev 6/4/21

Multi-family 4 + stories



STATE BUILDING CODE COUNCIL

Washington State Energy Code Development Standard Energy Code Proposal Form

Code being amended:	Commercial Provisions	Residential Provisions
Code Section # _C405.5.1		
Brief Description:		
Description: Reduc	tion of redundancy in exte	rior lighting efficacy / controls requirement.
Proposed code change text: (new text and strikeout for te		the Integrated Draft, linked above, and then use <u>underline</u> for
greater than 25 50	watts shall have a minimui	g. All exterior building grounds luminaires that operate at m efficacy of 100 lumens per watt unless the luminaire is one of the exceptions under Section C405.5.2.
1. Solar-powered la		cted to any electrical service.
	olled by a motion sensor. qualify for one of the exce	eptions under Section C405.5.2.
Purpose of code change:		
 #2 is applies to lum 	inaires controlled by a mot	ge requirement here could be reduced from 50 W to 25 W tion sensor. In the text above, it already says "unless the" #2 is redundant with this text
•	and not connected to electextraneous requirement?	strical service, does the energy code apply to this type of
Your amendment must meet	one of the following criteria	. Select at least one:
Addresses a critical life/sa	ifety need.	Consistency with state or federal regulations.
The amendment clarifies the intent or application of the code.		Addresses a unique character of the state.
		Corrects errors and omissions.
Addresses a specific state (Note that energy conserved)		
Check the building types that	would be impacted by your	code change:

Multi-family 1 − 3 stories

Single family/duplex/townhome

	itutional 🔀 Industrial
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Your name Michael Myer Email address Michael.myer@pnnl.gov

Your organization Pacific NW Ntl Laboratory Phone number 509-375-7292

Other contact name Mike Rosenberg

<u>Instructions</u>: Send this form as an email attachment, along with any other documentation available, to: sbcc@des.wa.gov. For further information, call the State Building Code Council at 360-407-9278.

Economic Impact Data Sheet

Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants and businesses.

Removing exception #2 does not have an economic effect, #2 is redundant with the text in the preceding paragraph.

Removing exception #1 relates to the scope of coverage. If the product is not connected to electrical service, it is probably not subject to the energy code. This change does not have an economic effect.

LED fixtures are the dominant light source, and the efficacy is better than other sources and the wattage of many LED fixtures in exterior applications is below 50 W. Reducing from 50 W to 25 W is staying consistent with the original intent of the requirement.

Provide your best estimate of the construction cost (or cost savings) of your code change proposal? (See OFM Life Cycle Cost <u>Analysis tool</u> and <u>Instructions</u>; use these <u>Inputs</u>. Webinars on the tool can be found <u>Here</u> and <u>Here</u>)

\$Click here to enter text./square foot (For residential projects, also provide \$Click here to enter text./ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

0.109 kWh/ square foot (or) Click here to enter text.KBTU/ square foot

(For residential projects, also provide Click here to enter text.KWH/KBTU / dwelling unit)

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

Assumes 4,380 hours of operation as the lower wattage fixture is not required to be connected to an occupancy sensor. 25 W x 4,380 hours and assumed to light 1,000 square feet of space.

List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application:

No change in enforcement, just a shift in wattage to reflect the change in technologies.